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					aaa Lys												432
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gtt. Val	Trp				aaa Lys									taa *			621
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	Asp	Ile	Lys	Glu	Pro	Val	Tyr	Pro	Gly	_	Ala	Thr	Pro	Glu			

90 Leu Asn Arq Gly Val Ser Phe Ala Glu Glu Asn Glu Ser Leu Asp Asp 105 Gln Asn Ile Ser Ile Ala Gly His Thr Phe Ile Asp Arg Pro Asn Tyr 120 125 Gln Phe Thr Asn Leu Lys Ala Ala Lys Lys Gly Ser Met Val Tyr Phe Lys Val Gly Asn Glu Thr Arg Lys Tyr Lys Met Thr Ser Ile Arg Asp 150 155 Val Lys Pro Thr Asp Val Gly Val Leu Asp Glu Gln Lys Gly Lys Asp 170 165 Lys Gln Leu Thr Leu Ile Thr Cys Asp Asp Tyr Asn Glu Lys Thr Gly 185 180 Val Trp Glu Lys Arg Lys Ile Phe Val Ala Thr Glu Val Lys 200

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Lyg Gly Ser Ser Leu Leu Glu Gly Thr Ser Tyr Pro Thr Gly Gly Thr

Ash Thr His Ala Val Ile Ser Gly His Arg Gly Leu Pro Gln Ala Lys

Lew Phe Thr Asp Leu Pro Glu Leu Lys Lys Gly Asp Glu Phe Tyr Ile

Gli Val Asn Gly Lys Thr Leu Ala Tyr Gln Val Asp Gln Ile Lys Thr

Lew Leu Val Arg Gly His Arg Ile Pro Tyr Gln Pro Glu Lys Ala Ala

Ala Gly Met Lys Lys Val Ala Gln Gln Asn Leu Leu Trp Thr

Leu Leu Ile Ala Cys Ala Leu Ile Ile Ser Gly Phe Ile Ile Trp 265

Met Lys Lys Glu Arg Gln Ser Arg Lys Lys Arg Ser Phe Leu Arg Thr

Phe Leu Pro Ile Leu Leu Val Ile Gly Leu Ala Leu Ile Phe Asn 25

200 Leu Val Thr Leu Leu Thr Cys Thr Pro Tyr Met Ile Asn Ser His Arg

185 Val Glu Pro Thr Asp Thr Lys Asp Leu His Ile Glu Ser Gly Gln Asp

135

215

150

230

Tyr Lys Arg Arg Lys Lys Thr Thr Arg Lys Pro Lys

165

245

<213> Streptococcus mutans

180

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5

60

155

235

170

250

125

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Ser Ser Phe Asp Phe Lys Lys Val Glu Ser Ile Ser Thr Gln Ser Val
Leu Ala Ala Gln Met Ala Ala Gln Lys Leu Pro Val Ile Gly Gly Ile
                                     90
Ala Ile Pro Asp Leu Lys Ile Asn Leu Pro Ile Phe Lys Gly Leu Asp
            100
                                 105
Asn Val Gly Leu Thr Tyr Gly Ala Gly Thr Met Lys Asn Asp Gln Val
Met Gly Glu Asn Asn Tyr Ala Leu Ala Ser His His Val Phe Gly Met
                        135
                                             140
Thr Gly Ser Ser Gln Met Leu Phe Ser Pro Leu Glu Arg Ala Lys Glu
                                         155
                    150
Gly Met Glu Ile Tyr Leu Thr Asp Lys Asn Lys Val Tyr Thr Tyr Val
                165
                                     170
Ile Ser Glu Val Lys Thr Val Thr Pro Glu His Val Glu Val Ile Asp
                                 185
            180
Asn Arg Pro Gly Gln Asn Glu Val Thr Leu Val Thr Cys Thr Asp Ala
                            200
                                                 205
Gly Ala Thr Ala Arg Thr Ile Val His Gly Thr Tyr Lys Gly Glu Asn
  1 210
                        215
                                             220
Asp Phe Asn Lys Thr Ser Lys Lys Ile Lys Lys Ala Phe Arg Gln Ser
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Tyr Asn Gln Ile Ser Phe
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1 To To To Ala Gly Tyr Gly Gly Phe Lys Leu Ile Asp Thr Asn Thr Lys Thr Glu 30
Gln Thr Leu Lys Glu Ala Lys Leu Ala Ala Lys Lys Pro Gln Glu Ala
                             40
Ser Gly Thr Lys Asn Ser Thr Asp Gln Ala Lys Asn Lys Ala Ser Phe
                        55
Lys Pro Glu Thr Gly Gln Ala Ser Gly Ile Leu Glu Ile Pro Lys Ile
                    70
                                         75
Asn Ala Glu Leu Pro Ile Val Glu Gly Thr Asp Ala Asp Asp Leu Glu
Lys Gly Val Gly His Tyr Lys Asp Ser Tyr Tyr Pro Asp Glu Asn Gly
                                 105
Gln Ile Val Leu Ser Gly His Arg Asp Thr Val Phe Arg Arg Thr Gly
                            120
Glu Leu Glu Lys Gly Asp Gln Leu Arg Leu Leu Leu Ser Tyr Gly Glu
                        135
```

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Phe Thr Tyr Glu Ile Val Lys Thr Lys Ile Val Asp Lys Asp Asp Thr
                    150
Ser Ile Ile Thr Leu Gln His Glu Lys Glu Glu Leu Ile Leu Thr Thr
                165
                                     170
Cys Tyr Pro Phe Ser Tyr Val Gly Asn Ala Pro Lys Arg Tyr Ile Ile
            180
                                 185
Tyr Gly Lys Arg Val Thr
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Glu Glu Asn Pro Phe Ile Gly Thr Thr Val Phe Gly Gly Leu Ser Leu
Ala Leu Gly Ala Ala Leu Leu Ala Gly
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      <211> 23
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Ile Leu Gly Leu Ala Leu Leu
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                                     10
Ala Gly Phe Ser Leu Leu Gly Leu
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Leu Gly Leu Ala Gly Leu Gly Phe
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Arg Arg Asn Lys Lys Asn His Lys Ala
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Arg Arg Lys Gln Asp
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Lys Arg Arg Lys Ala
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Lys Arg Arg His Val Ala Lys His
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Ser Arg Arg Glu Leu
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Asn Pro Phe
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aaggateeta eetttteete tagetgaae
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Val Ala Cys Leu Ile Pro Ile Tyr Cys Phe Gly Gln Met Val Leu Gln
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Thr Glu Met Tyr Gln Glu Gln Gln Asn His Ser Leu Ala Tyr Asn Gln
Arg Leu Ala Ser Gln Asn Arg Ile Val Asp Pro Phe Leu Ala Glu Gly
Tyr Glu Val Asn Tyr Gln Val Ser Asp Asp Pro Asp Ala Val Tyr Gly
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Tyr Leu Ser Ile Pro Ser Leu Glu Ile Met Glu Pro Val Tyr Leu Gly

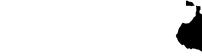
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185 180 Asp Gln Ile Val Thr Val Glu Pro Asn Asp Phe Glu Pro Val Leu Ile 200 205 Gln His Gly Glu Asp Tyr Ala Thr Leu Leu Thr Cys Thr Pro Tyr Met 215 220 Ile Asn Ser His Arg Leu Leu Val Arg Gly Lys Arg Ile Pro Tyr Thr 230 235 Ala Pro Ile Ala Glu Arg Asn Arg Ala Val Arg Glu Arg Gly Gln Phe 245 250 Trp Leu Trp Leu Leu Gly Ala Met Ala Val Ile Leu Leu Leu 265 Tyr Arg Val Tyr Arg Asn Arg Ile Val Lys Gly Leu Glu Lys Gln 280 285 Leu Glu Gly Arg His Val Lys Asp 290 295

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Tyr Leu Phe Tyr Val Ala Val Gly Leu Ile Val Ile Leu Leu Trp Ile Ile Arg Arg Leu Arg Lys Lys Lys Gln Pro Glu Lys Ala Leu Lys Ala Leu Lys Ala Ala Arg Lys Glu Val Lys Val Glu Asp Gly Gln Gln